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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,291	12/31/2003	Cheng Chen Bong	T-1779 (CFP-014748)	8407
802	7590	07/09/2009	EXAMINER	
PATENTTM.US			HOPKINS, ROBERT A	
P. O. BOX 82788				
PORLTAND, OR 97282-0788			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			07/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/748,291	BONG, CHENG CHEN	
	Examiner	Art Unit	
	Robert A. Hopkins	1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 25 March 2009.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 3-6 is/are allowed.

6) Claim(s) 1 and 2 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hunter et al(4877429).

Hunter et al teaches a rapid cycle pressure swing adsorption oxygen concentration method comprising preparing a mechanical valve comprising at least one cam actuated flow control valve and a valve actuator having a rotating shaft(440 in figures 6 and 7) and a cam(442,444) corresponding to each respective one of the at least one cam actuated flow control valve(424A, 424B, 434A, 434B), interconnecting the cam with the rotating shaft, preparing a sieve tank(20) having at least one molecular sieve filled with molecular sieve material, mounting the mechanical valve on the sieve tank to make the at least one cam actuated flow control valve selectively switch an airflow direction of air for the at least one molecular sieve bed as the at least one cam actuated flow control valve is actuated, rotating the rotating shaft thereby the cam(442,444) actuates the corresponding one of the at least one cam actuated flow control valve and makes the correponding molecular sieve switching among an adsorption phase, a balance phase, and a desorption phase in the at least one sieve bed, and separating oxygen from the air incoming into the at least one sieve bed with

the adsorption phase, the balance phase, and the desorption phase. Hunter et al further teaches wherein the at least one cam actuated flow control valve is a 2 position , 2 way air pilot directional flow control valve.

Allowable Subject Matter

Claims 3-6 are allowed.

Response to Arguments

Applicant's arguments filed 4-25-09 have been fully considered but they are not persuasive.

Applicant argues Hunter does not disclose an act of rotating a rotating shaft for actuating one cam-actuated flow control valve and making the molecular sieve bed switching among and among and alternatively at an adsorption phase, a balance phase, and a desorption phase.

Examiner notes that Hunter is directed to a RSPA process for separating oxygen from air, wherein the RSPA process is cyclic and includes an adsorption phase, countercurrent depressurization phase, and repressurization phase as noted in column 1 lines 28-43). Therefore, because an RSPA process is cyclic and inherently includes an adsorption phase, a balance phase, and a desorption phase, and the device includes an intake line for pressurized feed and an exhaust line, the device of Hunter clearly teaches using a mechanical valve as required in part a of the current claim to provide for a cyclic RSPA process having an adsorption phase, a balance phase, and a desorption phase.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Thursday, 7:30am-5pm, every Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rah
June 22, 2009

/Robert A Hopkins/
Primary Examiner, Art Unit 1797